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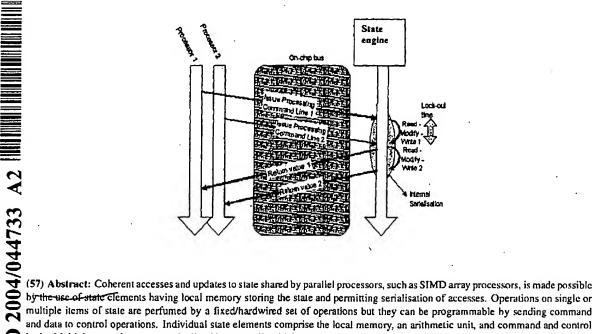
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(54) Title: STATE ENGINE FOR DATA PROCESSOR



and data to control operations. Individual state elements comprise the local memory, an arithmetic unit, and command and control logic. Multiple state elements are pipelined in state cells which can, in turn, be organised into state arrays and state engines effecting complete control over shared state access. A read/modify/write operation can be performed in only two cycles and a complete command in only three to five cycles.

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